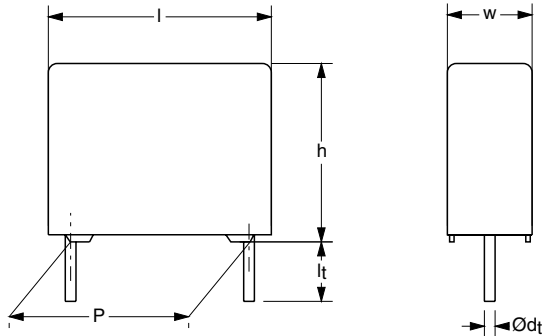


# Metallized Polyester Film Capacitors

## MKT Radial Potted Type



Dimensions in mm

### APPLICATIONS

Blocking and coupling. Bypass and energy reservoir

### MARKING

C-value; tolerance; rated voltage; code for manufacturer; year and week of manufacturer; manufacturer's type designation

### DIELECTRIC

Polyester film

### ELECTRODES

Vacuum deposited aluminum

### ENCAPSULATION

Flame retardant plastic case and epoxy resin (UL-class 94 V-0)

### CONSTRUCTION

Wound mono construction

### LEADS

Tinned wire

### CAPACITANCE RANGE (E12 SERIES)

0.0047 to 0.68  $\mu$ F

### FEATURES

Available taped and loose in box  
Lead (Pb)-free product  
RoHS-compliant product



**RoHS**  
COMPLIANT

### CAPACITANCE TOLERANCE

$\pm 10\%$ ;  $\pm 5\%$

### RATED (DC) VOLTAGE

100 V; 250 V; 400 V; 630 V

### RATED (AC) VOLTAGE

63 V; 160 V; 220 V; 250 V

### CLIMATIC CATEGORY

55/105/56

### RATED TEMPERATURE

85 °C

### MAXIMUM APPLICATION TEMPERATURE

100 °C

### REFERENCE SPECIFICATIONS

IEC 60384-2

### PERFORMANCE GRADE

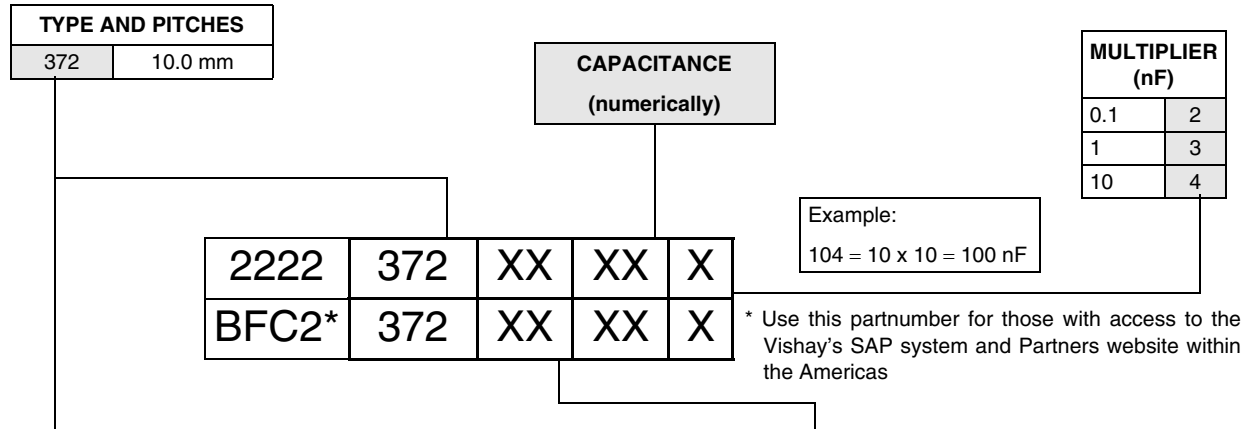
Grade 1 (long life)

### DETAIL SPECIFICATION

For more detailed data and test requirements contact:  
[filmcaps.roeselare@vishay.com](mailto:filmcaps.roeselare@vishay.com)



**COMPOSITION OF CATALOG NUMBER**



TYPE	PACKAGING	LEAD CONFIGURATION	PREFERRED TYPES				
			C-TOL	100 V	250 V	400 V	630 V
372	loose in box	lead length 4.0 + 1.0/- 0.5 mm	± 10 %	21	41	51	61
			ON REQUEST				
372	loose in box	lead length 4.0 + 1.0/- 0.5 mm	± 5 %	22	42	52	62
	taped on reel	H = 18.5 mm; P <sub>0</sub> = 12.7 mm; reel diameter 356 mm	± 10 %	25	45	55	65
			± 5 %	26	46	56	66
	ammopack	H = 18.5 mm; P <sub>0</sub> = 12.7 mm	± 10 %	28	48	58	68
			± 5 %	29	49	59	69

**SPECIFIC REFERENCE DATA**

DESCRIPTION	VALUE			
	at 1 kHz	at 10 kHz	at 100 kHz	
Tangent of loss angle:				
C ≤ 0.1 μF	≤ 75 × 10 <sup>-4</sup>	≤ 130 × 10 <sup>-4</sup>	≤ 250 × 10 <sup>-4</sup>	
0.1 μF < C ≤ 0.68 μF	≤ 75 × 10 <sup>-4</sup>	≤ 130 × 10 <sup>-4</sup>	≤ 300 × 10 <sup>-4</sup>	
Rated voltage pulse slope (dU/dt) <sub>R</sub>	at 100 V (DC)	at 250 V (DC)	at 400 V (DC)	at 630 V (DC)
	34 V/μs	50 V/μs	80 V/μs	120 V/μs
R between leads, for C ≤ 0.33 μF:				
at 100 V; 1 minute	> 15000 MΩ	> 30000 MΩ	> 30000 MΩ	
at 500 V; 1 minute				> 30000 MΩ
RC between leads, for C > 0.33 μF at 100 V; 1 minute	> 5000 s			
R between interconnected leads and case (foil method)	> 30000 MΩ	> 30000 MΩ	> 30000 MΩ	> 30000 MΩ
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	160 V; 1 minute	400 V; 1 minute	640 V; 1 minute	1008 V; 1 minute
Withstanding (DC) voltage between leads and case	200 V; 1 minute	500 V; 1 minute	800 V; 1 minute	1260 V; 1 minute



Metallized Polyester Film Capacitors Vishay BCcomponents  
MKT Radial Potted Type

$U_{Rdc} = 100\text{ V}$ ,  $U_{Rac} = 63\text{ V}$

C ( $\mu\text{F}$ )	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 372 ..... AND PACKAGING				
			LOOSE IN BOX		REEL	AMMOPACK	
			It = 4.0 + 1.0/- 0.5 mm		SPQ	SPQ	SPQ
			C-tol = ± 10 %				
last 5 digits of catalog number		SPQ	SPQ	SPQ			
<b>Pitch = 10.0 ± 0.4 mm; <math>d_t = 0.60 \pm 0.06\text{ mm}</math></b>							
0.1	4.0 × 10.0 × 12.5	0.7	21104	1000	1400	750	
0.12			21124				
0.15			21154				
0.18			21184				
0.22	4.0 × 10.0 × 12.5	0.7	21224	1000	1400	750	
0.27			21274				
0.33			21334				
0.39	5.0 × 11.0 × 12.5	0.9	21394	1000	1100	600	
0.47			21474				
0.56	6.0 × 12.0 × 12.5	1.0	21564	750	900	500	
0.68			21684				

$U_{Rdc} = 250\text{ V}$ ;  $U_{Rac} = 160\text{ V}$

C ( $\mu\text{F}$ )	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 372 ..... AND PACKAGING				
			LOOSE IN BOX		REEL	AMMOPACK	
			It = 4.0 + 1.0/- 0.5 mm		SPQ	SPQ	SPQ
			C-tol = ± 10 %				
last 5 digits of catalog number		SPQ	SPQ	SPQ			
<b>Pitch = 10.0 ± 0.4 mm; <math>d_t = 0.60 \pm 0.06\text{ mm}</math></b>							
0.047	4.0 × 10.0 × 12.5	0.7	41473	1000	1400	750	
0.056			41563				
0.068			41683				
0.082			41823				
0.1			41104				
0.12	5.0 × 11.0 × 12.5	0.9	41124	1000	1100	600	
0.15			41154				
0.18	6.0 × 12.0 × 12.5	1.0	41184	750	900	500	
0.22			41224				

$U_{Rdc} = 400\text{ V}$ ;  $U_{Rac} = 220\text{ V}$

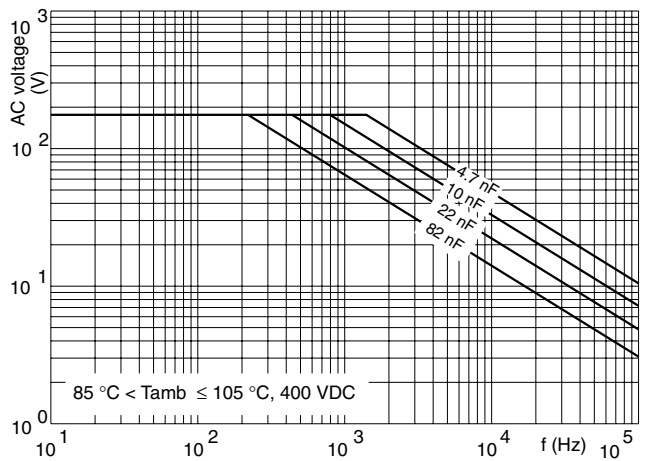
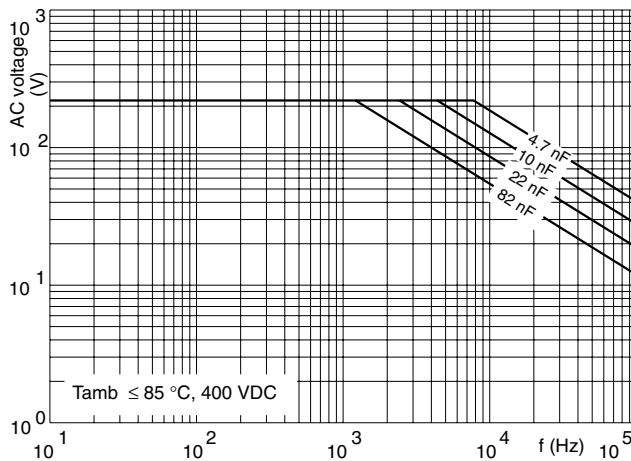
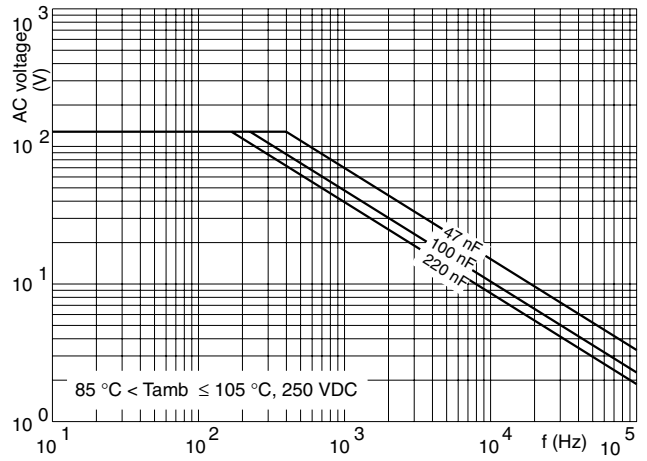
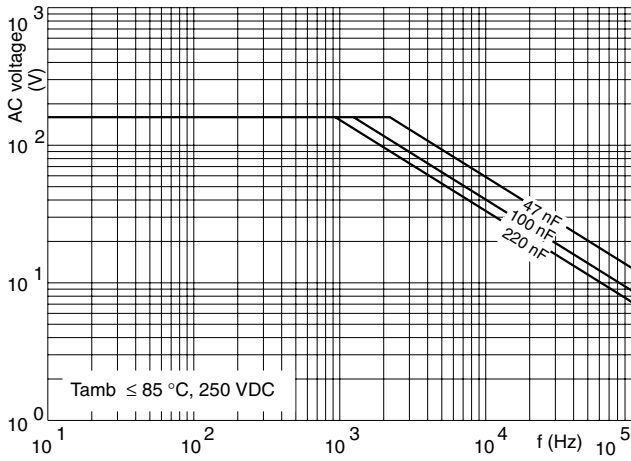
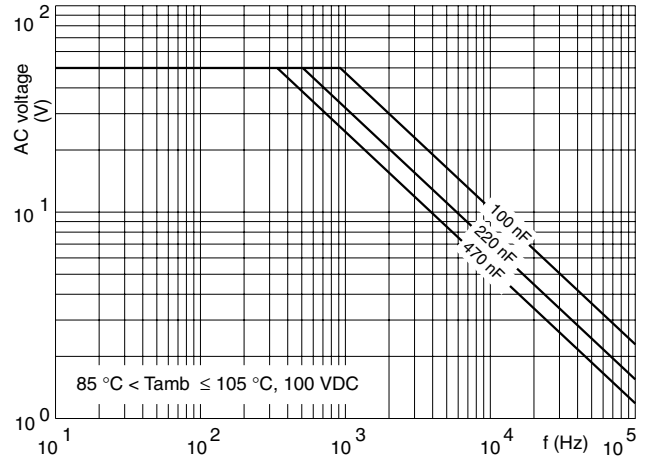
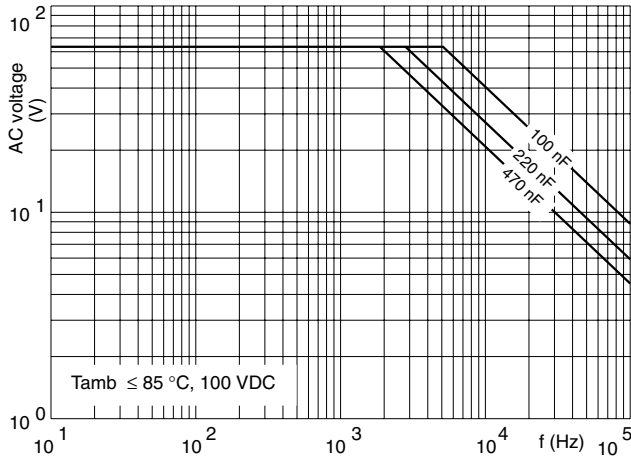
C ( $\mu\text{F}$ )	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 372 ..... AND PACKAGING				
			LOOSE IN BOX		REEL	AMMOPACK	
			It = 4.0 + 1.0/- 0.5 mm		SPQ	SPQ	SPQ
			C-tol = $\pm 10\%$ last 5 digits of catalog number				
<b>Pitch = 10.0 <math>\pm</math> 0.4 mm; <math>d_t = 0.60 \pm 0.06</math> mm</b>							
0.0047	4.0 × 10.0 × 12.5	0.7	51472	1000	1400	750	
0.0056			51562				
0.0068			51682				
0.0082			51822				
0.01			51103				
0.012			51123				
0.015			51153				
0.018			51183				
0.022			51223				
0.027			51273				
0.033	51333						
0.039	5.0 × 11.0 × 12.5	0.9	51393	1000	1100	600	
0.047			51473				
0.056			51563				
0.068	6.0 × 12.0 × 12.5	1.0	51683	750	900	500	
0.082			51823				

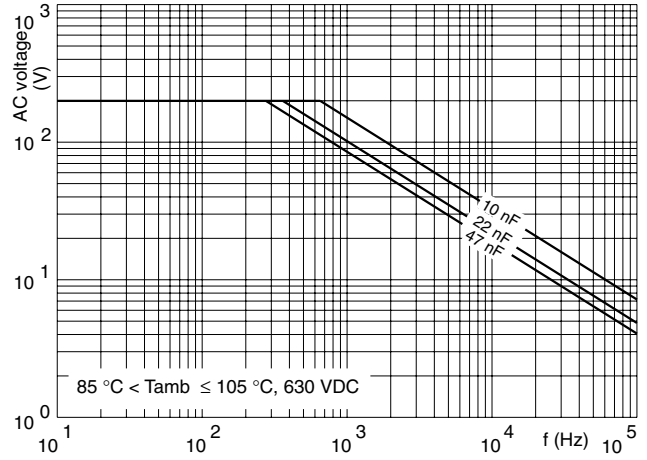
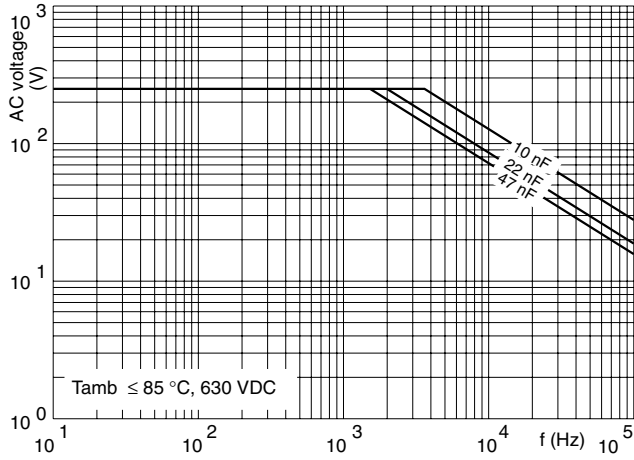
$U_{Rdc} = 630\text{ V}$ ;  $U_{Rac} = 250\text{ V}$

C ( $\mu\text{F}$ )	DIMENSIONS W × H × L (mm)	MASS (g)	CATALOG NUMBER 2222 372 ..... AND PACKAGING				
			LOOSE IN BOX		REEL	AMMOPACK	
			It = 4.0 + 1.0/- 0.5 mm		SPQ	SPQ	SPQ
			C-tol = $\pm 10\%$ last 5 digits of catalog number				
<b>Pitch = 10.0 <math>\pm</math> 0.4 mm; <math>d_t = 0.60 \pm 0.06</math> mm</b>							
0.01	4.0 × 10.0 × 12.5	0.6	61103	1000	1400	750	
0.012			61123				
0.015			61153				
0.018			61183				
0.022			61223				
0.027	5.0 × 11.0 × 12.5	0.9	61273	1000	1100	600	
0.033			61333				
0.039	6.0 × 12.0 × 12.5	1.0	61393	750	900	500	
0.047			61473				

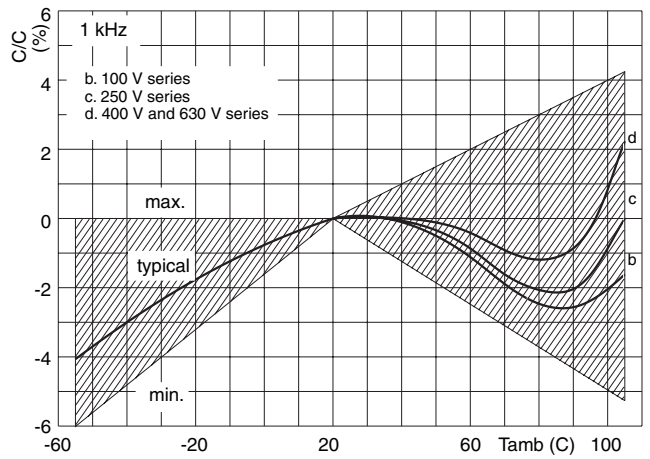
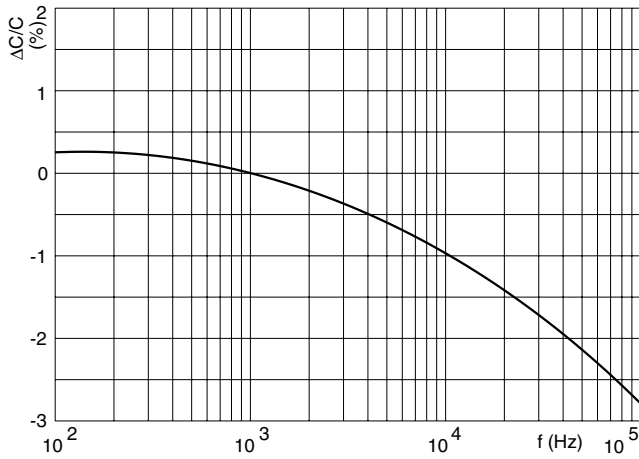


MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY

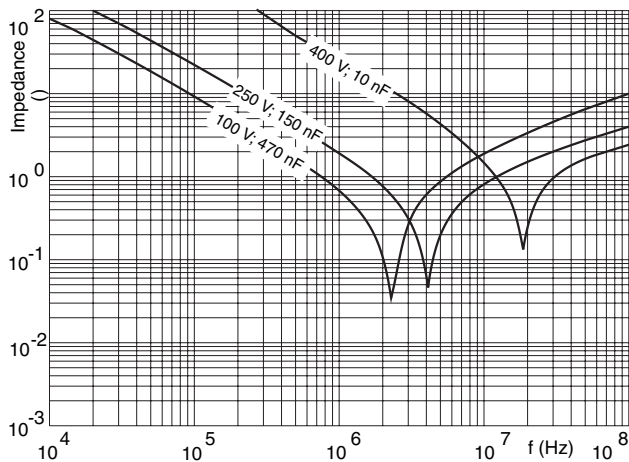




**CAPACITANCE**



**IMPEDANCE**





## Disclaimer

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